Listing of Claims:

1. (Previously Presented) A method comprising:

receiving, at a Serving-Call State Control Function (S-CSCF), a registration request from a subscriber in a mobile network, wherein the registration request comprises a Transport Address (TA) of the subscriber;

providing the TA and an address of the S-CSCF to a Home Subscription Server (HSS) for storage at the HSS: and

receiving the TA from the HSS in response to a loss of the TA by the S-CSCF such that the TA is restored at the S-CSCF

- 2. (Canceled)
- (Previously Presented) The method of claim 1, wherein the TA is stored in a non-volatile memory of the HSS.
- (Previously Presented) The method of claim 3, wherein the nonvolatile memory comprises a hard disk drive.
 - 5. (Previously Presented) A method comprising:

receiving, at a Serving-Call State Control Function (S-CSCF), a registration request from a subscriber, wherein the registration request comprises a Transport Address (TA), and further wherein the TA comprises a Care of Address of the subscriber;

storing the TA in a non-volatile memory of the S-CSCF; and

restoring the TA to the S-CSCF from the non-volatile memory in response to a loss of the TA by the S-CSCF.

- 6. (Canceled)
- (Previously Presented) The method of claim 5, wherein the nonvolatile memory comprises a hard disk drive.

(Previously Presented) A program storage device readable by a
machine, tangibly embodying a program of instructions executable by the machine to cause
the machine to:

receive, at a Serving-Call State Control Function (S-CSCF), a registration request from a subscriber, wherein the registration request comprises a Transport Address (TA) of the subscriber:

forward the TA of the subscriber and an address of the S-CSCF from the S-CSCF to a Home Subscription Server (HSS) such that the TA and the address of the S-CSCF are stored at the HSS; and

receive, from the HSS, the TA at the S-CSCF in response to a loss of the TA by the S-CSCF.

- (Canceled)
- 10. (Previously Presented) The program storage device of claim 8, wherein the TA and the address of the S-CSCF are stored in a non-volatile memory of the HSS.
- (Previously Presented) The program storage device of claim 10, wherein the non-volatile memory comprises a hard disk drive.
- 12. (Previously Presented) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to cause the machine to:

receive, at a Serving-Call State Control Function (S-CSCF), a registration request from a subscriber, wherein the registration request comprises a Transport Address (TA) of the subscriber;

store the TA in a non-volatile memory at the S-CSCF; and

restore the TA to the S-CSCF from the non-volatile memory in response to a loss of the TA by the S-CSCF.

- 13. (Canceled)
- (Previously Presented) The program storage device of claim 12, wherein the non-volatile memory comprises a hard disk drive.
 - 15. (Withdrawn) A method comprising:

recovering location information of a subscriber in a mobile network;

upon a Serving-Call State Control Function (S-CSCF) receiving a call setup request for the subscriber from an Interrogating-Call State Control Function (I-CSCF), the S-CSCF forwards a route request to a User Mobility Server (UMS) and receives a home address of from the UMS;

forwarding the call setup request from the S-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and forwarding an address update from the subscriber to the S-CSCF.

- 16. (Withdrawn) The method of claim 15, wherein forwarding the request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Carc Of Address of the subscriber.
- 17. (Withdrawn) The method of claim 15, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.

- 18. (Withdrawn) The method of claim 16, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.
 - (Withdrawn) A method comprising:
 recovering location information of a subscriber in a mobile network;

upon an Interrogating-Call State Control Function (I-CSCF) receiving a call setup request for the subscriber, the I-CSCF forwards a route request to a User Mobility Server (UMS) and receives a home address of the subscriber from the UMS;

forwarding the call setup request from the I-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and forwarding an address update from the subscriber to the I-CSCF.

- 20. (Withdrawn) The method of claim 19, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.
- 21. (Withdrawn) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method of recovering location information of a subscriber and a mobile network, the method comprising:

upon an Serving-Call State Control Function (S-CSCF) receiving a call setup request for the subscriber from an Interrogating-Call State Control Function (I-CSCF), the S-CSCF forwards a route request to a User Mobility Server (UMS) and receives a home address of the subscriber from the UMS;

forwarding the call setup request from the S-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and forwarding an address update from the subscriber to the S-CSCF.

- 22. (Withdrawn) The program storage device of claim 21, wherein forwarding the request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care Of Address of the subscriber.
- 23. (Withdrawn) The program storage device of claim 21, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.
- 24. (Withdrawn) The program storage device of claim 22, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.
- 25. (Withdrawn) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method of recovering location information of a subscriber in a mobile network, the method comprising:

upon an Interrogating-Call State Control Function (I-CSCF) receiving a call setup request for the subscriber, the I-CSCF forwards a route request to a User Mobility Server (UMS) and receives a home address of the subscriber from the UMS;

forwarding the call setup request from the I-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and forwarding an address update from the subscriber to the I-CSCF.

- 26. (Withdrawn) The program storage device of claim 25, wherein forwarding the request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care Of Address of the subscriber.
- 27. (Withdrawn) The program storage device of claim 25, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.
- 28. (Withdrawn) The program storage device of claim 26, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.
 - (Previously Presented) A system comprising:
- a first receiving unit configured to receive a registration request from a subscriber of a mobile network at a Serving-Call State Control Function (S-CSCF), wherein the registration request comprises a Transport Address (TA) of the subscriber;
- a forwarding unit configured to forward the TA and an address of the S-CSCF from the S-CSCF to a Home Subscription Server (HSS) for storage; and
- a second receiving unit configured to receive the TA from the HSS in response to a loss of the TA by the S-CSCF.
 - 30. (Withdrawn) Λ system comprising:
- a first forwarding unit configured to forward a route request, upon a Serving-Call State Control Function (S-CSCF) receiving a call setup request for a subscriber of a mobile network from an Interrogating-Call State Control Function (I-CSCF), from the S-CSCF to a User Mobility Server (UMS);
 - a receiving unit configured to receive a home address from the UMS;

a second forwarding unit configured to forward the call setup request from the S-CSCF to a home agent at the home address of the subscriber;

a third forwarding unit configured to forward the call setup request from the home agent to the subscriber; and

a fourth forwarding unit configured to forward an address update from the subscriber to the S-CSCF.

- (Previously Presented) The method of Claim 1, wherein the TA of the subscriber comprises a current Care of Address of the subscriber.
- 32. (Previously Presented) The system of Claim 29, wherein the first receiving unit comprises the second receiving unit.